

# SFY 2016 WORKPLAN - Quarter Status Report

Goal #2: Protecting America's Waters

Program #: GWR

Objective 2.1 Protect Human Health

## TASK 2.1 Groundwater Protection – Permits

Continued

2.1 FTE Funding Source	FTE	Personnel	ERE	Indirect	Others	Total
WQFF-APP PPG [Match]	3.13	180,920	79,605	116,559		377,084
WQFF-APP NPS in PPG [Match]	0.27	17,545	7,720	11,303		36,568
WQFF-APP DWSRF Federal [Match]	2.82	157,161	69,151	101,252		327,564
WQFF-APP	7.95	472,352	207,835	304,315		984,502
Wellhead	3.02	173,304	76,254	111,652		361,210
DWSRF 10%	0.83	52,139	22,941	33,591		108,671
TOTALS	18.02	1,053,421	463,506	678,672		2,195,599

## End of Year Summary

**Table 1 - APP PERMITS WITH UIC NEXUS**

ProjectName	Description
Excelsior Gunnison	The project is a proposed in situ (ISR) copper mine. The ISR method involves injecting low-pH barren solutions into the orebody using injection wells and extracting copper-bearing solutions at recovery wells that surround each injection well.
Q1	Application was not received during this period.
Q2	An application was not received during the 2nd quarter but was received on 1/14/16.
Q3	
Q4	The project is a proposed in-situ recovery (ISR) copper mine. The ISR method involves injecting low-pH barren solutions into the ore body using injection wells and extracting copper-bearing solutions at recovery wells that surround each injection well. The Aquifer Protection Permit application was received by ADEQ on 1/13/16. A letter from ADEQ titled Comprehensive Request for Additional Information was sent to the applicant on 6/17/16. A response is expected to be submitted to ADEQ on or before August 1, 2016.

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**Table 1 - APP PERMITS WITH UIC NEXUS**

ProjectName	Description
Florence Copper, Inc. Pilot Test Facility	FCI applied for a significant amendment to the Temporary Individual Permit. The purpose of the amendment is to address the Water Quality Appeals Board Order to remand the APP to ADEQ.
Q1	
Q2	A comprehensive request for additional information (RAI) was issued by ADEQ on August 11, 2015. A response letter to the RAI was received on September 14, 2015, and emails with additional responses were received on October 23, 2015, and December 14, 2015. A second request for information (IRSS) was sent on December 22, 2015.
Q3	
Q4	A comprehensive request for additional information (RAI) was issued by ADEQ on August 11, 2015. A response letter to the RAI was received on September 14, 2015, and emails with additional responses were received on October 23, 2015, and December 14, 2015. A second request for information (IRSS) was sent on December 22, 2015. FCI responded to the second IRSS on January 25, 2016. ADEQ accepted the responses and drafted the fact sheet and permit. The draft permit and fact sheet were published for comment on April 14, 2016 and a public hearing was held on May 19, 2016. The public comment period ended on May 20, 2016. ADEQ is currently drafting a responsiveness summary to the comments that were received.
Kinder Morgan	Kinder Morgan plans to develop the St. Johns Gas Unit as a major supplier of CO2 for enhanced recovery of oil and natural gas.
Q1	
Q2	ADEQ sent out a IRSS letter on 12/21/2015. Kinder Morgan responded to ADEQ's CRAI letter on October 13, 2015. The previously stimulated wells have all been abandoned, but ADEQ still have questions including the cement bond logs and how they are interpreted, provide what the COCs might be from the injected fluid, & how the PMA and DIA was calculated - using fracture analysis software
Q3	
Q4	Kinder Morgan plans to develop the St. Johns Gas Unit as a major supplier of CO2 for enhanced recovery of oil and natural gas. The previously stimulated wells have all been abandoned. The draft permit and fact sheet entered the public notice period on June 24, 2016 and the public comment period closes on July 24, 2016.
Morton Salt	Glendale, AZ. Salt is mined from Luke Salt Body via solution mining wells. Existing Individual APP (Permit #100176).
Q1	
Q2	ADEQ have not received updates from this site.
Q3	
Q4	DEQ has not received updates from this site.



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**Table 2 - RECHARGE FACILITY REVIEWS**

ProjectName	Description
Pima County WWMD – Green Valley WW Reclamation Facility	APP Amendment to add a new lift station and effluent line. Effluent disposal is to four percolation ponds. APP P-100629.
Q1	
Q2	Application received 10/22/15. Final engineering review completed on 12/8/15.
Q3	
Q4	Permit was issued on June 15th, 2016.
City of Chandler – Ocotillo Water Reclamation Facility (USF Permit Application also)	Amendment to existing APP P-100140 to increase the permitted wastewater effluent volume from the wastewater treatment plant from 10 MGD to 15.5 MGD.
Q1	
Q2	Application received on 10/19/2015. Technical review is in process. No hydrology deficiencies. Engineering deficiencies transmitted to applicant on 12/29/2015.
Q3	
Q4	Draft permit and fact sheet are in internal/external review phase. After review, it will be sent to public hearing.
City of Cottonwood Riverfront Water Reclamation Facility (USF Permit application also)	Application for an individual APP, Inventory Number 511220. To permit a new wastewater treatment plant, including the disposal of up to 300,000 GPD of wastewater effluent for irrigation reuse or to an injection well.
Q1	
Q2	Application received on 11/17/2015. Technical review is in process.
Q3	
Q4	Overdue first 30 day letter sent on August 9, 2016 in regard to the July 5th, 2016, letter requesting additional information.
Eloy Detention Center Water Reclamation Facility	Amendment to existing APP P-102749, including the addition of an additional recharge basin, and an increase of effluent disposal capacity from 622,000 GPD to 900,000 GPD.
Q1	
Q2	Application received on 9/30/15. Technical review deficiencies were transmitted to the applicant on 12/31/15.
Q3	
Q4	On May 13, 2016, the second letter "Request for Additional Information" was sent to the applicant.

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**Table 2 - RECHARGE FACILITY REVIEWS**

ProjectName	Description
Marana Water Reclamation Facility (USF Permit application also)	Amendment to APP P-100631 to increase the effluent disposal capacity from 0.7 MGD to 3.5 MGD. Includes the addition of two new treatment trains and three new recharge basins.
Q1	
Q2	Application received on 4/03/15. Public notice published on 11/9/15, and the permit was granted on 12/21/15.
Q3	
Q4	Permit was issued on July 21, 2016
City of Glendale – Arrowhead Ranch WRF	Amendment to APP P-100385 to set alert levels and aquifer quality limits in a point of compliance well.
Q1	
Q2	Application received on 11/25/15. Deficiency letter sent to applicant on 12/28/15.
Q3	
Q4	Permit was issued on June 15, 2016.
City of Chandler - Chandler Heights Recharge Facility (USF Permit amendment also)	Amendment to existing APP P-105482 to increase the effluent recharge limit to five on-site recharge basins from 2 MGD to 5 MGD.
Q1	
Q2	Application received on 7/13/15. The substantive review phase is complete, and the APP is being drafted.
Q3	
Q4	Permit was issued on May 5th, 2016
City of Tucson – Southeast Houghton Area Recharge Project (USF Permit application also)	APP application for recharge facility utilizing three new recharge basins for disposal of wastewater effluent from the Tucson Reclaimed Water Treatment Plant. Inventory number 511628.
Q1	
Q2	Complete application received on 6/26/15. Latest deficiency letter sent on 11/05/15. Latest response received from applicant on 12/21/15. That response is in technical review.
Q3	
Q4	Permit was granted on June 1st, 2016.

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**Table 2 - RECHARGE FACILITY REVIEWS**

ProjectName	Description
Liberty Utilities (Litchfield Park Water & Sewer) Corp.- Palm Valley Water Reclamation Facility	Amendment to current APP P-100310 to allow recharge of effluent to four infiltration basins.
Q1	
Q2	Application received on 11/04/14. Public notice published on 10/13/15. APP permit amendment granted on 11/18/15.
Q3	
Q4	Permit was issued on January 29th, 2016
Luke 303 Water Reclamation Facility (EPCOR West Valley Regional WRF) (USF Permit application also)	APP application for recharge of wastewater effluent to 13 on-site basins. Inventory number 511700.
Q1	
Q2	Application received on 2/24/15. The technical review is complete, and the draft permit was public noticed on 12/30/15.
Q3	
Q4	Permit was issued on February 2nd, 2016.
Redrock Correctional Center	Amendment application to APP P-105663 upgrade the headworks at the wastewater treatment facility. Disposal includes four evaporation/percolation basins.
Q1	
Q2	Application received on 9/30/15. Deficiency letter sent to applicant on 11/6/15.
Q3	
Q4	Third Letter for Request for Additional Information was sent on May 13th, 2016
Bensch Ranch WWTP	Amendment application to APP P-105001 to change disposal method from AZPDES discharge to percolation ponds
Q1	
Q2	Application received on 3/19/15. Most recent deficiency letter sent to applicant on 10/13/15.
Q3	
Q4	draft Permit is in the internal/external review phase.

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**Table 2 - RECHARGE FACILITY REVIEWS**

ProjectName	Description
Town of Gilbert South Recharge Site	Review of APP compliance schedule items relating to installation of four new point of compliance wells and an ambient groundwater monitoring program. APP P-105302.
Q1	
Q2	The ambient monitoring program was approved by the ADEQ on 8/25/15.
Q3	
Q4	No Change from pervious quarter The ambient monitoring program was approved by the ADEQ on 8/25/15.
City of Chandler - Ocotillo Brine Reduction Facility (USF Permit amendment also)	Amendment to existing APP P-102865 to allow an additional source water and disposal to three additional APP recharge permit locations.
Q1	
Q2	Application received by ADEQ on 12/11/14. APP permit issued on 7/21/15.
Q3	
Q4	Permit was issued on July 21st, 2015.
Verrado Water Reclamation Facility	Amendment to APP P-105202 to add a new effluent surface discharge point. Disposal locations include AZPDES discharge, reuse, and two vadose zone injection wells.
Q1	
Q2	Application received on 11/24/15. Deficiency letter sent to applicant on 1/13/16.
Q3	
Q4	Public notice was published on August 4, 2016.



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**Table 3 - MITIGATION ORDER REVIEWS**

ProjectName	Description
Bisbee Mitigation Order	Sulfate in groundwater from Freeport McMoRan Copper Queen Mine
Q1	
Q2	No reviews completed during the 1st and 2nd quarters.
Q3	
Q4	No reviews completed during the 3rd and 4th quarters.
Sierrita Mitigation Order	Sulfate in groundwater from Freeport McMoRan Sierrita Mine
Q1	
Q2	No reviews completed during the 1st quarter.
	2nd Quarter - Completed review of FMI Sierrita's response to ADEQ comments on the 2013 Mitigation Plan.
	Met with FMI Sierrita on October 29, 2015 for their notification of a curtailment at the FMI Sierrita mine and their request to reduce mitigation water pumping. Provided a summary of a Contingency Plan for reduced mitigation water pumping.
	Attended the Sierrita CAG meeting on November 17, 2015.
	Began review of the Contingency Plan
	Met with Community Water of Green Valley to hear their concerns regarding the reduction of mitigation water pumping at FMI Sierrita as described by the Contingency Plan. On the same day met with FMI Sierrita. FMI Sierrita indicated that the curtailment for the mine will go from 50% to 100%. FMI Sierrita also discussed the possibility of allowing mitigation water pumpage to be placed in the FMI Twin Buttes open pit during short term (90-day) emergency conditions (i.e., large scale El Nino events). No submittal or decision on this issue to date.
Q3	
Q4	Commented on the Notice of Contingency Plan in the 3rd Quarter. Reviewed the 2014 Mitigation Facilities Operation Tech Report in the 3rd Quarter. Reviewed a revised Contingency Plan for Sulfate with Respect to Drinking Water Supplies in the 3rd Quarter. Internal meeting in the 3rd Quarter to discuss comment letter from the Town of Sahuarita on Sierrita's plan to curtail mining and reduce the amount of mitigation pumping.